	Application No.	Applicant(s)
Notice of Allowability	10/710,175	KANG ET AL.
	Examiner	Art Unit
	Linh M. Nguyen	2816
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate commerced GHTS. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due course. THIS
2. The allowed claim(s) is/are <u>14-17,20-25 and 27-68</u> .		
 3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	been received. been received in Applications cuments have been receive	on No ed in this national stage application from the
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		o a roply complying war ale requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT INFORMATION ABOUT THE PROPERTY OF THE P	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date Summary (PTO-413), /Mail Date Summary (PTO-413), /Mail Date Summary (PTO-152)

DETAILED ACTION

This is a reply to the Applicant's amendment submitted on 08/21/2006. By virtue of this amendment, claims 1-13, 18-19 and 26 are cancelled; claims 53-68 are newly added; and thus, claims 14-17, 20-25 and 27-68 are currently presented in the instant application.

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Allowable Subject Matter

1. Claims 14-17, 20-25 and 27-68 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The closest prior art fails to disclose or fairly suggest:

- a) An apparatus for adjusting a phase between two input signals, in which the first input and the second input are differential signals, in combination with the remaining claimed limitations as called for in claims 14 and 25;
- b) An apparatus for controlling at least one of a first and a second adjusting circuits, in which the phase difference between the *in-phase* signal and the *quadrature-phase* signal reaches a predetermined condition, in combination with the remaining limitations, as called for in claim 33;
- c) An apparatus, in which by controlling at least one of a first and a second adjusting circuits, the phase difference between the *positive* signal and the *negative* signal reaches a predetermined condition, in combination with the remaining limitations, as called for in claim 34;
- d) A method, in which the step of adjusting at least one of a first variable capacitor and a second variable capacitor by respectively utilizing a first control voltage generated from the first

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digital value and a second control voltage generated from the second digital value, to make the phase difference between the *in-phase* signal and the *quadrature-phase* signal reach a predetermined condition, in combination with the remaining limitations, as called for in claim 35;

- e) A method, in which the step of adjusting at least one of a first variable capacitor and a second variable capacitor by respectively utilizing a first control voltage generated from the first digital value and a second control voltage generated from the second digital value, to make the phase difference between the *positive* signal and the *negative* signal reach a predetermined condition, in combination with the remaining limitations, as called for in claim 36;
- f) An apparatus for adjusting a phase between two input signals, in which by controlling at least one of the first and second digital values, the phase difference between the first input signal and the second input signal is adjusted, and the first input signal and the second input signal are an in-phase and a quadrature-phase signal, respectively, in combination with the remaining claimed limitations, as called for in claim 53; and
- g) A method for adjusting a phase between two input signals, in which the first input signal and the second input signal are an in-phase and a quadrature-phase signal, in combination with the remaining claimed limitations, as called for in claim 63.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh M. Nguyen whose telephone number is (571) 272-1749.

The examiner can normally be reached on Alternate Fri, Monday - Thursday from 7:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh M. Nguyen Primary Examiner Art Unit 2816

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